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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/815,236	03/31/2004	Rhonda L. Childress	AUS920040117US1	8129
35525 IBM CORP (Y	7590 10/11/2007 A)		EXAMINER	
C/O YEE & ASSOCIATES PC P.O. BOX 802333			MIRZADEGAN, SAEED S	
DALLAS, TX	- -		ART UNIT	PAPER NUMBER
			2144	•
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			10/11/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
Office Assis a Communication	10/815,236	CHILDRESS ET AL.			
Office Action Summary	Examiner	Art Unit			
	Saeed S. Mirzadegan	2144			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet wit	h the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D/ - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 36(a). In no event, however, may a re vill apply and will expire SIX (6) MONT cause the application to become ABA	CATION. Apply be timely filed ITHS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on <u>31 M</u>	arch 2004.				
3) Since this application is in condition for alloward closed in accordance with the practice under E	· ·				
Disposition of Claims					
4) ☐ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.	·			
Application Papers					
9)☐ The specification is objected to by the Examine	r.				
10)⊠ The drawing(s) filed on <u>31 March 2004</u> is/are:	a)⊡ accepted or b)⊠ obje	ected to by the Examiner.			
Applicant may not request that any objection to the	• ,	· ·			
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	-				
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau 	s have been received. s have been received in Aprity documents have been u (PCT Rule 17.2(a)).	oplication No received in this National Stage			
* See the attached detailed Office action for a list	of the certified copies not i	eceived.			
÷ .					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 03/31/2004.	Paper No(s	ummary (PTO-413))/Mail Date formal Patent Application 			

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on 03/31/2004 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Drawings

2. Figures 1 & 2 and 3 should be designated by a legend such as --Prior Art--because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

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3. Claims 9-16 are rejected under 35 U.S.C. 101 because The Claimed Invention is directed to a judicial exception to 35 U.S.C. 101 and is not directed to a practical application of such judicial exception because the invention as claimed does not produce a tangible result as set forth in MPEP 2106.

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- 4. As written, applicant is claiming "A computer program product in a computer readable medium". In the disclosure, applicant further recites "Examples of computer readable media include recordable-type media, such as a floppy disk, a hard disk drive, a RAM, CD-ROMs, DVD-ROMs, and transmission-type media, such as digital and analog communications links, wired or wireless communications links using transmission forms, such as, for example, radio frequency and light wave transmissions (page 34, lines 15-21). In essence the applicant is claming a non-statutory subject matter.
- 5. In order for software claims to be statutory, they must be claimed in combination with an appropriate medium and/or hardware to establish statutory category of invention and enable any functionality to be realized as set forth in MPEP 2106.01.

Software, per se:

The claims lack the necessary physical articles or objects to constitute a machine or a manufacture within the meaning of 35 USC 101. They are clearly not a series of steps or acts to be a process nor are they a combination of chemical compounds to be a composition of matter. As such, they fail to fall within a statutory category. They are, at best, functional descriptive material *per se*.

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Descriptive material can be characterized as either "functional descriptive material" or "nonfunctional descriptive material." Both types of "descriptive material" are nonstatutory when claimed as descriptive material *per se*, 33 F.3d at 1360, 31 USPQ2d at 1759. When <u>functional</u> descriptive material is recorded on some computer-readable medium, it becomes structurally and functionally interrelated to the medium and will be statutory in most cases since use of technology permits the function of the descriptive material to be realized. Compare *In re Lowry*, 32 F.3d 1579, 1583-84, 32 USPQ2d 1031, 1035 (Fed. Cir. 1994)

Merely claiming <u>non</u>functional descriptive material, i.e., abstract ideas, stored on a computer-readable medium, in a computer, or on an electromagnetic carrier signal, does not make it statutory. See *Diehr*, 450 U.S. at 185-86, 209 USPQ at 8 (noting that the claims for an algorithm in *Benson* were unpatentable as abstract ideas because "the sole practical application of the algorithm was in connection with the programming of a general purpose computer.").

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 6. Claims 1, 6-9, 14-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant Own Admitted Prior Art (APA) in view of Kiremidjian et al. (Kiremidjian)

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US PG Pub. No. 2003/0229714, and further in view of Chidambaran et al.

(Chidambaran) US PG. Pub. No. 2005/0055446.

- 7. The applied reference has a common assignee with the instant application.

 Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art only under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 103(a) might be overcome by: (1) a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not an invention "by another"; (2) a showing of a date of invention for the claimed subject matter of the application which corresponds to subject matter disclosed but not claimed in the reference, prior to the effective U.S. filing date of the reference under 37 CFR 1.131; or (3) an oath or declaration under 37 CFR 1.130 stating that the application and reference are currently owned by the same party and that the inventor named in the application is the prior inventor under 35 U.S.C. 104, together with a terminal disclaimer in accordance with 37 CFR 1.321(c). This rejection might also be overcome by showing that the reference is disqualified under 35 U.S.C. 103(c) as prior art in a rejection under 35 U.S.C. 103(a). See MPEP § 706.02(l)(1) and § 706.02(l)(2).
- 8. Regarding Claim 1, APA discloses a method in a data processing system, for allocating service provider system resources to hosted applications, comprising: determining whether a breach of a first SLA is imminent (IDS, AA, page 1, lines 22-25 & page 5, lines 23-24); retrieving SLA information for the SLA (IDS, AA, page 3; lines 12-

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14) determining a minimum penalty SLA based on the retrieved SLA information (IDS, AA, page 1, lines 30-32 and page 2, lines 1-2). However, APA does not explicitly teach: a plurality of service level agreements (SLAs) currently being serviced by service provider system resources.

- 9. In the same field of endeavor, Kiremidjian teaches, (page 4, ¶0059) plurality of SLA's.
- 10. It would have been obvious to one of ordinary skill in the networking art at the time the applicant's invention was made to combine Kiremidjian's teachings of plurality of SLA's with the teachings of APA, for the purpose of (see Kiremidjian, page 2, ¶0017). APA provides motivation to do so, by providing the ability to manage performance and availability levels of monitored service elements (see IDS, AA, page 1, lines 2-7).

Claim Rejections - 35 USC § 103

- 11. Regarding Claim 1, APA-Kiremidjian, disclose the invention as substantially claimed. However, APA-Kiremidjian do not explicitly teach: reallocating service provider system resources from applications associated with the minimum penalty SLA to applications associated with the first SLA.
- 12. In the same field of endeavor, Chidambaran teaches, (page 3, ¶0043) reallocation of resources.

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13. It would have been obvious to one of ordinary skill in the networking art at the time the applicant's invention was made to combine Chidambaran's teachings as explained above with the teachings of APA-Kiremidjian, for the purpose of (see Chidambaran, page 2, ¶0027). APA provides motivation to do so, by providing the ability to manage performance and availability levels of monitored service elements (see IDS, AA, page 1, lines 2-7).

- 14. Regarding Claim 6, ARA further discloses, determining whether a breach of a first SLA is imminent includes using a prediction engine to generate a prediction of whether the first SLA will be breached based on monitored metrics of a service provider system (IDS, AA, page 5, lines 23-24).
- 15. Regarding Claim 7, ARA further discloses, the prediction engine is a trend analysis algorithm associated with a service level management system (IDS, AD, page 4, lines 14-19).
- 16. Regarding Claim 8, ARA further discloses, if it is determined that a breach of a first SLA is not imminent, allocation of service provider system resources is performed in a default manner (IDS, AD, page 4, lines 9-13).

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17. Claim 9, lists all the same elements of claim 1, but in a computer program product form rather than a method form. Therefore, the supporting rationale of the rejection to claim 1 applies equally as well to claim 9.

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- 18. Claim 14, lists all the same elements of claim 6, but in a computer program product form rather than a method form. Therefore, the supporting rationale of the rejection to claim 6 applies equally as well to claim 14.
- 19. Claim 15, lists all the same elements of claim 7, but in a computer program product form rather than a method form. Therefore, the supporting rationale of the rejection to claim 7 applies equally as well to claim 15.
- 20. Claim 16, lists all the same elements of claim 8, but in a computer program product form rather than a method form. Therefore, the supporting rationale of the rejection to claim 8 applies equally as well to claim 16.
- 21. Claim 17, lists all the same elements of claim 1, but in an apparatus form rather than method form. Therefore, the supporting rationale of the rejection to claim 1 applies equally as well to claim 17.

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Claim Rejections - 35 USC § 103

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22. Claims 2, 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over APA-Kiremidjian-Chidambaran as applied to claim 1, 9 above and further in view of

Laye et al. (Laye) US PG Pub. No. 2003/0120771.

23. Regarding Claim 2, APA-Kiremidjian-Chidambaran, disclose the invention as

substantially claimed. However, APA-Kiremidjian-Chidambaran do not explicitly teach:

information from one or more Extensible Markup Language (XML) documents in an SLA

storage system.

24. In the same field of endeavor, Laye teaches, (page 4, ¶0062) transferred

information including various types of SLA events in Extensible Markup Language

(XML).

25. It would have been obvious to one of ordinary skill in the networking art at the

time the applicant's invention was made to combine Laye's teachings as explained

above with the teachings of APA-Kiremidjian-Chidambaran, for the purpose of (see

Laye, page 1, ¶0013). APA provides motivation to do so, by providing the ability to

manage performance and availability levels of monitored service elements (see APA,

page 1, lines 2-7).

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26. Claim 10, lists all the same elements of claim 2, but in a computer program product form rather than a method form. Therefore, the supporting rationale of the rejection to claim 2 applies equally as well to claim 10.

Claim Rejections - 35 USC § 103

- 27. Claims 3-5, 11-13, 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over APA-Kiremidjian-Chidambaran as applied to claims 1, 9, 17 above and further in view of Chaddha et al. (Chaddha) US PG Pub. No. 2006/0293942.
- 28. Regarding Claim 3, APA-Kiremidjian-Chidambaran, disclose the invention as substantially claimed. However, APA-Kiremidjian-Chidambaran do not explicitly teach: SLA information includes one or more penalties associated with each of the SLAs.
- 29. In the same field of endeavor, Chaddha teaches, (page 7, ¶0068, lines 14-19 & ¶0070) information associating penalties to SLAs.
- 30. It would have been obvious to one of ordinary skill in the networking art at the time the applicant's invention was made to combine Chaddha's teachings as explained above with the teachings of APA-Kiremidjian-Chidambaran, for the purpose of (see Chaddha, page 1, ¶0011). APA provides motivation to do so, by providing the ability to manage performance and availability levels of monitored service elements (see APA, page 1, lines 2-7).

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31. Regarding claims 4, 5 the limitations of these claims have already been addressed above.

- 32. Claim 11, lists all the same elements of claim 3, but in a computer program product form rather than a method form. Therefore, the supporting rationale of the rejection to claim 3 applies equally as well to claim 11.
- 33. Claim 12, lists all the same elements of claim 4, but in a computer program product form rather than a method form. Therefore, the supporting rationale of the rejection to claim 4 applies equally as well to claim 12.
- 34. Claim 13, lists all the same elements of claim 5, but in a computer program product form rather than a method form. Therefore, the supporting rationale of the rejection to claim 5 applies equally as well to claim 13.
- 35. Claim 18, lists all the same elements of claim 3, but in a computer program product form rather than a method form. Therefore, the supporting rationale of the rejection to claim 3 applies equally as well to claim 18.

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36. Claim 19, lists all the same elements of claim 4, but in a computer program product form rather than a method form. Therefore, the supporting rationale of the rejection to claim 4 applies equally as well to claim 19.

37. Claim 20, lists all the same elements of claim 5, but in a computer program product form rather than a method form. Therefore, the supporting rationale of the rejection to claim 5 applies equally as well to claim 20.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please refer to form PTO-892 (Notice of Reference Cited) for a list of relevant prior art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Saeed S. Mirzadegan whose telephone number is 571-270-3044. The examiner can normally be reached on M-F 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Vaughn can be reached on 571-272-3922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SM

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